

The Western Journal of Medicine

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SUBMITTING MANUSCRIPTS

Manuscripts for consideration should be sent to the editor, Malcolm S. M. Watts, MD, PO Box 7602, San Francisco, CA 94120-7602.

"Information for Authors"—A complete guide to manuscript submission and *WJM* style appears in the January and July issues. Manuscripts may be prepared in accordance with the "Uniform Requirements for Manuscripts Submitted to Biomedical Journals" (*Annals of Internal Medicine*, Feb 1988; *The Medical Journal of Australia*, Feb 1988).

Author Responsibility—Authors are responsible for all statements, conclusions and methods of presenting subjects. Articles are accepted on condition that they are contributed solely to this journal.

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Manuscripts—Ordinarily manuscripts should not exceed 3,000 words (less than 15 typed double-spaced pages). The *original* manuscript and two copies should be submitted, typed double-spaced throughout. If photographic illustrations are desired, three sets of clear, unmounted black and white glossy prints should be supplied. For line drawings, original artwork or glossy prints are acceptable. Tables should be typed on separate sheets of paper.

Clinical Investigation—Papers that authors wish considered for the Clinical Investigation section should be so designated in the transmittal letter. Such papers should describe experimental work in humans that extensively and prospectively examines scientific hypotheses relating to disease.

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The following list of continuing medical education programs in Arizona is compiled by the Arizona Medical Association. All courses listed have been certified as meeting the criteria for Category I of the ArMA CME Certificate and the AMA Physicians Recognition Award. To list Category I continuing medical education programs, please send information to Arizona Medical Association, 810 West Bethany Home Road, Phoenix, AZ 85013; or phone (602) 246-8901.

Brochures and registration forms are available from the contact person or organization sponsoring the program.

July 29-30—**Coconino County Medical Society's Summer Medical Seminar.** Little America Hotel, Flagstaff. Fri-Sat. Contact: Coconino County Medical Society, (602) 774-1886.

October 21-23—**Diagnosis and Management of Respiratory Diseases.** The Boulders, Scottsdale. Fri-Sun. Contact: Medical Education Resources, 1 (800) 421-3756.

November 11-13—**17th Annual Seminar—Musculoskeletal Radiology.** Marriott's Camelback Inn, Scottsdale. Fri-Sun. Contact: Alex Newman, MD, Department of Radiology, Maricopa Medical Center, (602) 267-5361.

CONTACT INFORMATION

ArMA—Contact: Arizona Medical Association, 810 W. Bethany Home Rd, Phoenix, AZ 85013. (602) 246-8901.

U of A—Contact: University of Arizona College of Medicine, Arizona Health Sciences Center, Tucson, AZ 85724. (602) 626-6707.

CALIFORNIA, HAWAII AND NEVADA

This listing of continuing education programs in California, Hawaii and Nevada is supplied by the Committee on Continuing Medical Education of the California Medical Association. All courses and meetings listed have been approved for Category I credit toward the CMA Certificate in Continuing Medical Education. To have accredited courses listed here, please send information at least two months in advance to Department of Continuing Medical Education, California Medical Association, PO Box 7690, San Francisco 94120-7690; or phone (415) 863-5522. For a list of organizations approved for Category I credit toward the CMA Certificate in Continuing Medical Education or for more information on accreditation or certification, please write to the above address.

ALLERGY

October 14—**18th Course on Allergy and Immunology.** Pacific Presbyterian Medical Center at San Francisco. Fri. Contact: Herbert S. Kaufman, MD, PPMC, 2340 Clay St, Rm 313, San Francisco 94115. (415) 923-3441.

ANESTHESIOLOGY

June 16-19—**California Society of Anesthesiologists 1988 Annual Meeting** at Marriott Hotel, Anaheim. Thurs-Sun. 16 hrs. \$150-225. Contact: California Society of Anesthesiologists, 1065 Hillsdale Blvd, #410, Foster City 94404. (415) 345-3020.

August 21-27—**Hawaiian Seminar on Clinical Anesthesia.** California Society of Anesthesiologists at Inter-Continental Hotel, Wailea, Maui. Sun-Sat. 20 hrs. \$325/\$375. Contact: CSA, 1065 E. Hilldale Blvd, Ste 410, Foster City 94404. (415) 345-3020.

September 30-October 1—**Anesthesia Practice 1988.** Anesthesiology Educational Foundation. Fri-Sun. 11 hrs. Contact: AEF, PO Box 24230, Federal Building, Los Angeles 90024. (213) 825-0736.

October 16-21—**Hawaiian Seminar on Clinical Anesthesia.** California Society of Anesthesiologists at Westin Maui Hotel, Maui. Sun-Fri. 20 hrs. \$325/\$375. Contact: CSA, 1065 Hilldale Blvd, Ste 410, Foster City 94404. (415) 345-3020.

CARDIOLOGY

June 23-25—**Consultative Cardiology: Update in Diagnostic and Therapeutic Techniques.** American College of Cardiology at Newport Resort, Newport Beach. Thurs-Sat. 14 hrs. \$350. Contact: Extramural Programs Dept, ACC, 9111 Old Georgetown Rd, Bethesda, MD 20814. (800) 253-4636.

June 24-25—**Cardiovascular Drug Therapy II.** USC at Century Plaza Hotel, Century City. Fri-Sat. 12 hrs. \$110. Contact: USC.

June 30-July 2—**Consultative Cardiology: Update in Diagnostic and Therapeutic Techniques.** ACC, Orange Coast Heart Institute and Hoag Memorial Hospital at Westin South Coast Plaza, Costa Mesa. Thurs-Sat. Contact: Registration Secretary, EP Dept., ACC, 9111 Old Georgetown Rd, Bethesda, MD 20814.

July 22-23—**Arrhythmias: Interpretation, Diagnosis and Management.** Medical Education Resources at Disneyland Hotel, Anaheim. Fri-Sat. \$295. Contact: Deborah Wilderson, MER, 5808 S. Rapp St, Ste 202, Littleton, CO 80120. (800) 421-3756.

August 4-6—**Critical Care Cardiology.** American College of Cardiology at Fairmont Hotel, San Francisco. Thurs-Sat. 17 hrs. \$375. Contact: ACC Extramural Programs, Dept 5080, Washington, DC 20061-5080. (800) 253-4636.

KEY TO ABBREVIATIONS

- CMA: California Medical Association
Contact: Continuing Medical Education, California Medical Association, PO Box 7690, San Francisco 94120-7690. (415) 863-5522.
- DREW: Charles R. Drew Postgraduate Medical School
Contact: Herbert M. Thomas, MD, MPH, Director of CME, Office of Continuing Education, Charles R. Drew Postgraduate Medical School, 1621 East 120th Street, Los Angeles 90059. (213) 603-3183.
- LLU: Loma Linda University
Contact: James J. Couperus, MD, Associate Dean for Educational Affairs, Loma Linda University School of Medicine, Loma Linda 92350.
- PMC: Pacific Medical Center
Contact: Continuing Education, Pacific Medical Center, PO Box 7999, San Francisco 94120. (415) 563-4321, ext 2761.
- STAN: Stanford University
Contact: Edward Rubenstein, MD, Associate Dean for Postgraduate Education, Medical School Office Building, Suite X-365, Stanford 94305-6114. (415) 723-5594.
- UCD: University of California, Davis
Contact: Ruth Feryok, Director, Office of Continuing Medical Education, University of California, Davis, School of Medicine, 2701 Stockton Boulevard, Sacramento 95817. (916) 453-5390.
- UCI: University of California, Irvine
Contact: Melvin I. Marks, MD, Assistant Dean, University of California, Irvine, California College of Medicine, c/o UCI/CME Program, Memorial Medical Center, 2801 Atlantic Avenue, Long Beach 90801-1428. (213) 595-3811, or (714) 856-5414, UCI Extension.
- UCLA: University of California, Los Angeles
Contact: Martin D. Shickman, MD, Director, Continuing Education in Medicine and the Health Sciences, PO Box 24902, UCLA, Los Angeles 90024. (213) 825-7241.
- UCSD: University of California, San Diego
Contact: Office of Continuing Medical Education, University of California, San Diego, School of Medicine (M-017), La Jolla 92093. (619) 534-3713.
- UCSF: University of California, San Francisco
Contact: Robert Maggio, Administrative Director, Extended Programs in Medical Education, School of Medicine, University of California, San Francisco 94143. (415) 476-4251.
- USC: University of Southern California
Contact: Phil R. Manning, MD, Associate Dean, Postgraduate Division, University of Southern California School of Medicine, 1975 Zonal Ave, KAM314, Los Angeles 90033. (213) 224-7051.

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CONTINUING MEDICAL EDUCATION

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October 21-22—**Arrhythmias: Interpretation, Diagnosis and Management.** Medical Education Resources at Hyatt on Union Square, San Francisco. Fri-Sat. \$295. Contact: Deborah Wilderson, MER, 5808 S. Rapp St, Ste 202, Littleton, CO 80120. (800) 421-3756.

DERMATOLOGY

August 12-14—**Dermatologic Surgery: State of the Art 1988.** Stanford University at Monterey Sheraton, Monterey. Fri-Sun. Contact: Paul H. Jacobs, MD, Dept. of Dermatology, UMC Stanford, 94305. (415) 723-6105.

August 21-28—**International Symposium: Hot Spots in Dermatology.** Kauai Medical Group at Molokai, Hawaii. One week. Contact: David Elpern, MD, 3420-B Kuhio Highway, Lihue, Hawaii 96766. (808) 245-1507.

EMERGENCY MEDICINE

June 20-24—**Postgraduate Institute for Emergency and Primary Care Physicians, Symposium III & Optional Advanced Emergency Procedures Laboratory.** UCSD at Hanalei Hotel, Hawaii. Mon-Fri. 32 hrs. \$450. Contact: UCSD.

July 22-24—**Advanced Cardiac Life Support.** CPR Seminars at Ralph K. Davies Medical Center, San Francisco. Fri-Sun. Contact: CPR Seminars, 833 Market St, Ste 421, San Francisco 94103. (415) 543-7282.

August 22-26—**Postgraduate Institute for Emergency and Primary Care Physicians, Symposium II & Optional Advanced Emergency Procedures Laboratory.** UCSD. Mon-Fri. 32 hrs. \$450. Contact: UCSD.

August 29-September 2—**Topics in Emergency Medicine.** UCSF at Holiday Inn Union Square, San Francisco. Mon-Fri. 31 hrs. \$420. Contact: UCSF.

October 10-14—**Postgraduate Institute for Emergency and Primary Care Physicians, Symposium I & Optional Advanced Emergency Procedures Laboratory.** UCSD at Catamaran Resort Hotel, San Diego. Mon-Fri. 32 hrs. \$450. Contact: UCSD.

October 21-23—**Advanced Cardiac Life Support.** CPR Seminars at Ralph K. Davies Medical Center, San Francisco. Fri-Sun. Contact: CPR Seminars, 833 Market St, Ste 421, San Francisco 94103. (415) 543-7282.

November 4-6—**Management of the Child With Head Injury.** Children's Hospital Oakland at Monterey Conference Center and Hotel Pacific, Monterey. Fri-Sun. 12 hrs. \$280. Contact: Kim Leadon, Continuing Medical Education, Children's Hospital Oakland, 747-52nd St, Oakland 94609. (415) 428-3021.

November 14-18—**Postgraduate Institute for Emergency and Primary Care Physicians, Symposium III & Optional Advanced Emergency Procedures Laboratory.** UCSD at Hanalei Hotel, Hawaii. Mon-Fri. 32 hrs. \$450. Contact: UCSD.

December 5-9—**Postgraduate Institute for Emergency and Primary Care Physicians, Symposium II & Optional Advanced Emergency Procedures Laboratory.** UCSD. Mon-Fri. 32 hrs. \$450. Contact: UCSD.

INTERNAL MEDICINE

June 20-24—**Advances in Internal Medicine.** UCSF at San Francisco. Mon-Fri. 32 hrs. \$485. Contact: UCSF.

August 1-5—**Internal Medicine—36th Annual Update and Board Review.** USC at Health Sciences Campus, Los Angeles. Mon-Fri. 38 hrs. \$295. Contact: USC.

September 15-18—**Medical Acupuncture for Physicians: Part I.** UCLA at Bay View Plaza Holiday Inn, Santa Monica. Thurs-Sun. 200 hrs. \$3,200. Contact: UCLA.

September 22-24—**International Symposium on Medical Virology.** UCI at Ramada Renaissance Hotel, San Francisco. Thurs-Sat. Contact: Dr Luis M. de la Maza, Department of Pathology, Rt 84, UCI Medical Center, 101 City Drive S., Orange, 92668. (714) 634-6868.

October 4-7—**Rheumatology and Clinical Immunology.** UCSF at Stanford Court, San Francisco. Tues-Fri. 19 hrs. \$395. Contact: UCLA.

November 3-5—**New Directions in Anti-viral Chemotherapy.** UCSF at Hyatt on Union Square, San Francisco. Thurs-Sat. \$100. Contact: UCSF.

November 7-9—**12th Annual Cancer Symposium.** Scripps Memorial Cancer Hospital at Sheraton Harbor Island Hotel E, San Diego. Mon-Wed. 21 hrs. \$390. Contact: Nomi Feldman, Conference Coordinator, 3770 Tansy St, San Diego 92121. (619) 453-6222.

December 30-January 8—**Medical Acupuncture for Physicians: Part II.** UCLA at Bay View Plaza Holiday Inn, Santa Monica. 10 days. 200 hrs. \$3,200. Contact: UCLA.

OB/GYN

June 29-July 4—**6th Annual Controversies in Obstetrics and Gynecology.** Center for Health Education at Mauna Kea Beach Hotel, Kamuela, Hawaii. Thurs-Sun. 24 hrs. \$600. Contact: Center for Health Education, 2081 Atlantic Ave, PO Box 1428, Long Beach 90801. (213) 595-3811.

June 30-July 3—**6th Annual Controversies in Obstetrics & Gynecology.** Center for Health Education at Mauna Kea Beach Hotel, Hawaii. Thurs-Sun. Contact: The Center for Health Education, 2081 Atlantic Ave., PO Box 1428, Long Beach, 90801-1428. (213) 595-3811.

August 19-21—**1988—Office Gynecology for the Primary Care Physician.** Continuing Medical Education Associates and San Diego State University at Hyatt Islandia, San Diego. Fri-Sun. 18 hrs. \$295. Contact: Jacqueline Shiller, PO Box 84296, San Diego 92138. (619) 223-2997.

November 10-13—**Current Issues in Perinatal Medicine.** UCI at Marriott's Rancho Las Palmas Resort, Palm Springs. Thurs-Sat. Contact: UCI.

November 12—**Infertility Update V.** Scripps Clinic and Research Foundation Amphitheater, La Jolla. Sat. 7 hrs. \$110. Contact: Bonny Mower, Box 400S, Dept of Academic Affairs, 10666 N Torrey Pines Rd, La Jolla 92037. (619) 457-8556.

November 13-19—**11th Annual Review Course in Clinical Obstetrics & Gynecology.** The Center for Health Education at Westin South Coast Plaza Hotel, Costa Mesa. Sun-Sat. Contact: The Center for Health Education, 2081 Atlantic Ave., PO Box 1428, Long Beach, 90801-1428. (213) 595-3811.

PEDIATRICS

June 24-25—**Current Concepts in Child Neurology 1988.** Children's Hospital San Diego at the Holiday Inn Montgomery Field, San Diego. Fri-Sat. 10 hrs. Contact: Continuing Medical Education Office, Children's Hospital. (619) 576-4072.

August 22-24—**Pediatrics Update: 1988.** San Diego State University at Hyatt Islandia, San Diego. Mon-Wed. 18 hrs. \$295. Contact: Jacqueline Shiller, PO Box 84296, San Diego 92138. (619) 223-2997.

October 15-20—**American Academy of Pediatrics Annual Session.** AAP. Sat-Thurs. Contact: AAP, 1801 Hinman Ave., Evanston, IL 60201.

October 22-29—**13th Annual Pediatrics for the Practitioner: A Pediatric Symposium.** Center for Health Education at Mauna Kea Beach Hotel, Hawaii. One week. Contact: The Center for Health Education, PO Box 1428, Long Beach 90801-1428.

PSYCHIATRY

November 18-20—**34th Annual Group Therapy Symposium.** UCSF. Fri-Sun. Contact: UCSF.

RADIOLOGY

July 16-17—**Two-Day Seminar in Breast Imaging with Interpretive Workshops.** Los Angeles Radiological Society at Registry Hotel, Universal City. Sat-Sun. 10 hrs. \$200. Contact: LARS, PO Box 91215, Los Angeles 90009-1215. (213) 642-0921.

July 28-31—**Second Annual Symposium on Magnetic Resonance Imaging.** Hoag Memorial Hospital at Ritz-Carlton Hotel, Laguna Niguel. Thurs-Sun. \$395. Contact: Mary J. Ryals and Associates, PO Box 920113, Norcross, GA 30092-0113. (404) 641-9773.

August 1-5—**Modern Radiology Practice.** UCSD at Fess Parker Red Lion Resort, Santa Barbara. Mon-Fri. 30 hrs. \$425. Contact: Mary J. Ryals and Associates, PO Box 920113, Norcross, GA 30092-0113. (404) 641-9773.

August 22-26—**Radiology: 1988 USC Radiology Summer Hawaiian Seminar.** USC at Kauai Westin, Lihue, Hawaii. Mon-Fri. 28 hrs. \$475. Contact: USC.

August 25-28—**Fourth Annual Physics and Biology of Radiology.** UCSD at La Jolla Village Inn. Thurs-Sat. 25 hrs. \$395. Contact: Mary J. Ryals and Associates, PO Box 920113, Norcross, GA 30092-0113. (404) 641-9773.

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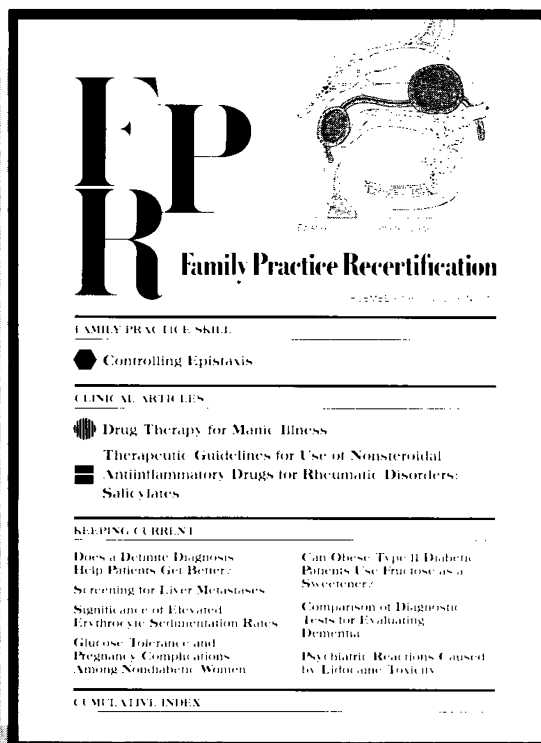
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September 9-11—**Fourth Annual Sonography Update and Review Course.** UCSD at Hanalei Hotel, San Diego. Fri-Sun. 17 hrs. \$375. Contact: Mary J. Ryals and Associates, PO Box 920113, Norcross, GA 30092-0113. (404) 641-9773.

October 31-November 1—**San Diego Postgraduate Radiology Course.** UCSD at Hotel del Coronado, San Diego. Mon-Tues. 28 hrs. \$450. Contact: UCSD.

December 9-11—**Advanced Seminars in Diagnostic Imaging.** UCSD at Ritz-Carlton, Laguna Niguel. Fri-Sun. 18 hrs. \$395. Contact: Dawne Ryals, PO Box 920113, Norcross, GA 30092-0113. (404) 641-9773.

SURGERY

June 20-23—**First International Symposium on Orbital Plastic Surgery.** Plastic Surgery Education Foundation at Westin St Francis Hotel, San Francisco. Mon-Thurs. 25 hrs. \$600. Contact: PSEF, 233 N. Michigan Ave, Ste 1900, Chicago, Illinois 60601. (312) 856-1818.

July 30-August 6—**Clinical Problems in External Disease and Anterior Segment Surgery.** USC at Mauna Kea Beach Hotel, Kamuela, Hawaii. 1 week. 26 hrs. \$535. Contact: USC.

August 18-21—**Discussions of Current Hand Care Concepts.** Plastic Surgery Education Foundation at San Diego. Thurs-Sun. Contact: PSEF, 233 N. Michigan Ave, Suite 1900, Chicago, Illinois 60601.

September 17—**Summary of Clinical Use of Argon, YAG and CO2 Lasers for Cutaneous Lesions.** Palo Alto Medical Foundation at Palo Alto Medical Clinic. Sat. 6 hrs. Contact: Palo Alto Medical Clinic, 300 Homer Ave, Palo Alto 94301. (415) 321-4121.

October 3-7—**6th Annual Comprehensive Review of Vascular Surgery.** UCLA Miramar Sheraton, Santa Monica. Mon-Fri. 32 hrs. \$595. Contact: UCLA.

October 12-14—**Hip and Knee Reconstructive Surgery 1988.** UCLA at Sheraton Princeville Hotel, Kauai, Hawaii. Wed-Fri. Contact: UCLA.

October 14-15—**13th Annual Clinical Neurosciences Symposium.** Dominican Neurologic Institute at Chaminade Conference Center, Santa Cruz. Fri-Sat. 11 hrs. \$350. Contact: Karen Rickenbach, DNI Dominican Hospital, 1555 Soquel Dr, Santa Cruz 95065. (408) 462-7562.

December 3—**Reider Laser YAG & Argon Laser/Brachytherapy Symposium.** Center for Health Education, Long Beach. Sat. Contact: Center for Health Education, 2801 Atlantic Ave, PO Box 1428, Long Beach 90801-1428. (213) 595-3811.

December 3—**Summary of Clinical Use of Argon, YAG and CO2 Lasers for Cutaneous Lesions.** Palo Alto Medical Foundation at Palo Alto Medical Clinic. Sat. 6 hrs. Contact: Palo Alto Medical Clinic, 300 Homer Ave, Palo Alto 94301. (415) 321-4121.

OF INTEREST TO ALL PHYSICIANS

June 18-19—**Skills Workshop: Flexible Sigmoidoscopy and Colposcopy.** UCI at Sheraton Newport, Newport Beach. Sat-Sun. 16 hrs. \$140-ea., \$250-both. Contact: UCI.

June 22-24—**A Journey to Clarity: Symposium for the Exploration and Integration of the Issues in the Recovery Process.** Monterey Community Hospital at Monterey Conference Center. Wed-Fri. \$250. Contact: Nomi Feldman, Conference Coordinator, 3770 Tansy St, San Diego 92121. (619) 453-6222.

June 24-26—**Family Practice Intensive Refresher.** USC at Pasadena Hilton Hotel. Fri-Sun. 16 hrs. \$250. Contact: USC.

June 25-26—**10th Annual Poison Control Center Symposium on Toxicology and Poisoning.** UCSF and Continuing Medical Education in Pharmacy at San Francisco. Sat-Sun. 14 hrs. \$235. Contact: Continuing Education S/P, UCSF, Box 0446, San Francisco 94143. (415) 476-4194.

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References: 1. Lader M: Assessing the potential for buspirone dependence or abuse and effects of its withdrawal. *Am J Med* 1987;82(SA):20-26. 2. Newton RE, et al: A review of the side effect profile of buspirone. *Am J Med* 1986;80(3B):17-21. 3. Mattia MJ, et al: Acute effects of buspirone and alcohol on psychomotor skills. *J Clin Psychiatry* 1982;43(12, Sec 2):56-60.

Contraindications: Hypersensitivity to buspirone.

Warnings: The administration of BuSpar to a patient taking a monoamine oxidase inhibitor (MAOI) may pose a hazard. Since blood pressure has become elevated when BuSpar was administered concomitantly with an MAOI, such concomitant use is not recommended. BuSpar should not be employed in lieu of appropriate antipsychotic treatment.

Precautions: General—Interference with cognitive and motor performance: Although buspirone is less sedating than other anxiolytics and does not produce significant functional impairment, its CNS effects in a given patient may not be predictable; therefore, patients should be cautioned about operating an automobile or using complex machinery until they are reasonably certain that buspirone does not affect them adversely. Although buspirone has not been shown to increase alcohol-induced impairment in motor and mental performance, it is prudent to avoid concomitant use with alcohol.

Potential for withdrawal reactions in sedative/hypnotic/anxiolytic drug dependent patients: Because buspirone will not block the withdrawal syndrome often seen with cessation of therapy with benzodiazepines and other common sedative/hypnotic drugs, before starting buspirone withdraw patients gradually from their prior treatment, especially those who used a CNS depressant chronically. Rebound or withdrawal symptoms may occur over varying time periods, depending in part on the type of drug and its elimination half-life. The withdrawal syndrome can appear as any combination of irritability, anxiety, agitation, insomnia, tremor, abdominal cramps, muscle cramps, vomiting, sweating, flu-like symptoms without fever, and occasionally, even as seizures.

Possible concerns related to buspirone's binding to dopamine receptors: Because buspirone can bind to central dopamine receptors, a question has been raised about its potential to cause acute and chronic changes in dopamine mediated neurological function (e.g., dystonia, pseudoparkinsonism, akathisia, and tardive dyskinesia). Clinical experience in controlled trials has failed to identify any significant neuroleptic-like activity; however, a syndrome of restlessness, appearing shortly after initiation of treatment, has been reported; the syndrome may be due to increased central noradrenergic activity or may be attributable to dopaminergic effects (ie, represent akathisia).

Information for Patients—Patients should be instructed to inform their physician about any medications, prescription or non-prescription, alcohol or drugs they are now taking or plan to take during treatment with buspirone; to inform their physician if they are pregnant, are planning to become pregnant, or become pregnant while taking buspirone; to inform their physician if they are breast feeding; and not to drive a car or operate potentially dangerous machinery until they experience how this medication affects them.

Drug Interactions—Concomitant use with other CNS active drugs should be approached with caution (see **Warnings**). Concomitant use with trazodone may have caused 3- to 6-fold elevations on SGPT (ALT) in a few patients. Buspirone does not displace tightly bound drugs like phenytoin, propranolol, and warfarin from serum proteins, but may displace less firmly bound drugs like digoxin.

Carcinogenesis, Mutagenesis, Impairment of Fertility—No evidence of carcinogenic potential was observed in rats or mice; buspirone did not induce point mutations, nor was DNA damage observed; chromosomal aberrations or abnormalities did not occur.

Pregnancy: Teratogenic Effects—Pregnancy Category B: Should be used during pregnancy only if clearly needed.

Nursing Mothers—Administration to nursing women should be avoided if clinically possible.

Pediatric Use—The safety and effectiveness have not been determined in individuals below 18 years of age.

Use in the Elderly—No unusual, adverse, age-related phenomena have been identified in elderly patients receiving a total, modal daily dose of 15 mg.

Use in Patients with Impaired Hepatic or Renal Function—Since buspirone is metabolized by the liver and excreted by the kidneys, it is not recommended in severe hepatic or renal impairment.

Adverse Reactions (See also Precautions): Commonly Observed—The more commonly observed untoward events include dizziness, nausea, headache, nervousness, lightheadedness, and excitement. **Associated with Discontinuation of Treatment—The more common events** causing discontinuation included: central nervous system disturbances (3.4%), primarily dizziness, insomnia, nervousness, drowsiness, lightheaded feeling; gastrointestinal disturbances (1.2%), primarily nausea; miscellaneous disturbances (1.1%), primarily headache and fatigue. In addition, 3.4% of patients had multiple complaints, none of which could be characterized as primary.

Incidence in Controlled Clinical Trials—Adverse events reported by 1% or more of 477 patients who received buspirone in four-week, controlled trials: **Cardiovascular:** Tachycardia/palpitations 1%, CNS: Dizziness 12%, drowsiness 10%, nervousness 5%, insomnia 3%, lightheadedness 3%, decreased concentration 2%, excitement 2%, anger/hostility 2%, confusion 2%, depression 2%, EENT: Blurred vision 2%, Gastrointestinal: Nausea 8%, dry mouth 3%, abdominal/gastric distress 2%, diarrhea 2%, constipation 1%, vomiting 1%, Musculoskeletal: Musculoskeletal aches/pains 1%, Neurological: Numbness 2%, paresthesia 1%, incoordination 1%, tremor 1%, Skin: Skin rash 1%, Miscellaneous: Headache 6%, fatigue 4%, weakness 2%, sweating/clamminess 1%.

Other Events Observed During the Entire Pre-marketing Evaluation—The relative frequency of all other undesirable events reasonably associated with the use of buspirone in approximately 3000 subjects who took multiple doses of the drug under well-controlled, open, and uncontrolled conditions is defined as follows: Frequent are those occurring in at least 1/100 patients; infrequent are those occurring in 1/100 to 1/1000 patients; and rare are those occurring in less than 1/1000 patients. **Cardiovascular—Frequent:** non-specific chest pain; infrequent: syncope, hypotension, hypertension; rare: cerebrovascular accident, congestive heart failure, myocardial infarction, cardiomyopathy, bradycardia. **Central Nervous System—Frequent:** dream disturbances; infrequent: depersonalization, dysphoria, noise intolerance, euphoria, akathisia, fearfulness, loss of interest, dissociative reaction, hallucinations, suicidal ideation, seizures; rare: feelings of claustrophobia, cold intolerance, stupor, slurred speech, psychosis. **EENT—Frequent:** tinnitus, sore throat, nasal congestion; infrequent: redness and itching of the eyes, altered taste, altered smell, conjunctivitis; rare: inner ear abnormality, eye pain, photophobia, pressure on eyes. **Endocrine—rare:** galactorrhea, thyroid abnormality. **Gastrointestinal—infrequent:** flatulence, anorexia, increased appetite, salivation, irritable colon, rectal bleeding; rare: burning of the tongue. **Genitourinary—infrequent:** urinary frequency, urinary hesitancy, menstrual irregularity and spotting, dysuria; rare: amenorrhea, pelvic inflammatory disease, enuresis, nocturia. **Musculoskeletal—infrequent:** muscle cramps, muscle spasms, rigid/stiff muscles, arthralgias. **Neurological—infrequent:** involuntary movements, slowed reaction time; rare: muscle weakness. **Respiratory—infrequent:** hyperventilation, shortness of breath, chest congestion; rare: epistaxis. **Sexual Function—infrequent:** decreased or increased libido; rare: delayed ejaculation, impotence. **Skin—infrequent:** edema, pruritus, flushing, easy bruising, hair loss, dry skin, facial edema, blisters; rare: acne, thinning of nails. **Clinical Laboratory—infrequent:** increases in hepatic aminotransferases (SGOT, SGPT); rare: eosinophilia, leukopenia, thrombocytopenia. **Miscellaneous—infrequent:** weight gain, fever, roaring sensation in the head, weight loss, malaise; rare: alcohol abuse, bleeding disturbance, loss of voice, hiccoughs.

Drug Abuse and Dependence: Controlled Substance Class—Not a controlled substance.

Physical and Psychological Dependence—Buspirone has shown no potential for abuse or diversion and there is no evidence that it causes tolerance, or either physical or psychological dependence. However, since it is difficult to predict from experiments the extent to which a CNS active drug will be misused, diverted, and/or abused once marketed, physicians should carefully evaluate patients for a history of drug abuse and follow such patients closely, observing them for signs of buspirone misuse or abuse (e.g., development of tolerance, incrementation of dose, drug-seeking behavior).

Overdosage: Signs and Symptoms—At doses approaching 375 mg/day the following symptoms were observed: nausea, vomiting, dizziness, drowsiness, miosis, and gastric distress. No deaths have been reported in humans either with deliberate or accidental overdosage.

Recommended Overdose Treatment—General symptomatic and supportive measures should be used along with immediate gastric lavage. No specific antidote is known and dialyzability of buspirone has not been determined.

For complete details, see Prescribing Information or consult your Mead Johnson Pharmaceuticals Representative.

U.S. Patent Nos. 3,717,634 and 4,182,763

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CONTINUING MEDICAL EDUCATION

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July 1-5—**2nd Annual Family Practice Board Review.** UCSD at Hana-lei Hotel, San Diego. Fri-Tues. 25 hrs. \$355. Contact: UCSD.

July 5-7—**Family Practice Board Review Course.** UCSF at Cathedral Hill Hotel, San Francisco. Tues-Thurs. 20 hrs. Contact: Program Coordinator, Dept of Family and Community Medicine, 400 Parnassus Ave, A-C9, San Francisco 94143-0900. (415) 476-5250.

July 14-17—**Decentralized Care of People With AIDS: An Educational Seminar for Developmental Approach.** Sonoma County Academic Foundation for Excellence at Flamingo Hotel, Santa Rosa. Thurs-Sun. \$275. Contact: Mary Ellen Buechter, SSAFE, 3325 Chanate Rd, Santa Rosa, 95404. (707) 527-4121.

July 15-18—**Caring for People With AIDS and Their Loved Ones.** Concern for Dying: an Educational Council, at Bishop's Ranch, Healdsburg. Fri-Mon. Contact: Penny Weingarten, 250 West 57th St., Room 831, New York, NY 10107. (800) 248-2122.

July 16-18—**Laboratory and Clinical Aspects of Microbiological Diagnosis.** UCLA at Hotel Le Meridien, Newport Beach. Sat-Sun. Contact: UCLA.

July 18-21—**12th Annual Selected Topics for Primary Care Physicians.** LLU. Mon-Thurs. Contact: LLU.

July 25-29—**SPORTS MEDICINE 1988: A Practical Approach to Caring for Today's Athletes.** UCSD at San Diego Princess. Mon-Fri. 23 hrs. Contact: UCSD.

July 27-31—**Wilderness Medicine '88.** Wilderness Medical Society at Squaw Valley, Lake Tahoe. Wed-Sun. 22 hrs. Contact: Jackie Silva, Coordinator, Mountain Medical Seminars, PO Box 321, Yreka, 96097. (916) 842-4667.

August 1-3—**4th International ND: YAG Laser Symposium.** International Laser Foundation at Sheraton Universal Hotel, Los Angeles. Mon-Wed. Contact: ILF, 3960 Park Blvd, Ste E, San Diego 92103. (619) 692-9115.

August 3-6—**15th Annual Meeting: The Peruvian American Medical Society** at Westin Bonaventure Hotel, Los Angeles. Wed-Sat. Contact: Hugo Ortiz, MD, Chairman, Scientific Program, 6488 Tamerlane Dr, West Bloomfield, MI 48322.

August 12-14—**Diagnosis and Management of Respiratory Diseases.** Medical Education Resources at Doubletree Inn, Monterey. Fri-Sun. \$225. Contact: Deborah Wilderson, MER, 5808 S. Rapp St, Ste 202, Littleton, CO 80120. (800) 421-3756.

August 13-20—**8th Annual Symposium on Fine Needle Aspiration.** UCSF at Kaanapali Beach, Maui. 1 week. 25 hrs. Contact: UCSF.

August 14-24—**31st Anniversary Postgraduate Refresher Course.** USC at Sheraton Waikiki and Westin Kauai, Hawaii. Sun-Wed. 42 hrs. \$535. Contact: USC.

August 17-27—**31st Anniversary Postgraduate Refresher Course.** USC at Sheraton Waikiki and Westin Kauai, Hawaii. Wed-Sat. 41 hrs. \$535. Contact: USC.

August 18-19—**7th Annual Symposium: General Medicine Update for Practicing Physicians.** Northern Inyo Hospital, Bishop. Thurs-Fri. 10 hrs. Contact: Lynda Schmidt, Northern Inyo Hospital, 105 Pioneer Lane, Bishop 93514. (619) 873-5811.

August 21-31—**31st Anniversary Postgraduate Refresher Course.** USC at Westin Kauai and Mauna Kea, Hawaii. Sun-Wed. 41 hrs. \$535. Contact: USC.

August 26-28—**Primary Care Medicine: A Practical Approach.** Scripps Clinic and Research Foundation at Le Meridien Hotel Coronado Island, San Diego. Fri-Sun. 18 hrs. \$225. Contact: Bonny A. Mower, Dept of Academic Affairs, 400S, 10666 N Torrey Pines Rd, La Jolla 92037. (619) 457-8556.

September 8-10—**New Advances in Common Neurologic Disorders.** UCSD Division of Neurology at Catamaran Resort Hotel, San Diego. Thurs-Sat. 14 hrs. \$300. Contact: Shirley Kolkey, Conference Coordinator, 3770 Tansy, San Diego 92121. (619) 453-6222.

September 15-18—**Decentralized Care of People With AIDS: An Educational Seminar for Developmental Approach.** Sonoma County Academic Foundation for Excellence at Flamingo Hotel, Santa Rosa. Thurs-Sun. \$275. Contact: Mary Ellen Buechter, SSAFE, 3325 Chanate Rd, Santa Rosa, 95404. (707) 527-4121.

September 24—**Lumbar Spine Disease: A Practical Approach for the Primary Care Practitioner.** Scripps Clinic and Research Foundation at Amphitheater, La Jolla. Sat. 5 hrs. \$50. Contact: Bonny A. Mower, Dept of Academic Affairs, Scripps Clinic and Research Foundation, 10666 N Torrey Pines Rd, La Jolla 92037. (619) 457-8556.

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CONTINUING MEDICAL EDUCATION

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September 28-30—**Primary Care Medicine: Principles and Practice.** UCSF at the Portman Hotel, San Francisco. Wed-Fri. \$365. Contact: UCSF.

October 10-14—**Current Topics in Occupational Medicine.** UCSF at Cathedral Hill Hotel, San Francisco. Mon-Fri. 40 hrs. \$550. Contact: UCSF.

October 15-18—**Infectious Diseases: Part I of II.** EPIC Expeditions at Napa Valley. Sun-Tues. 12 hrs. Contact: EPIC Expeditions, PO Box 209, Sun Valley, ID 83353. (208) 788-4995.

October 19-22—**Infectious Diseases: Part II.** EPIC Expeditions at Sonoma Valley. Wed-Sun. 12 hrs. Contact: EPIC Expeditions, PO Box 209, Sun Valley, ID 83353. (208) 788-4995.

October 20-22—**Recent Advances in Pulmonary and Critical Care Medicine.** UCSF at Mark Hopkins Hotel, San Francisco. Thurs-Sat. 15 hrs. \$365. Contact: UCSF.

October 21-23—**Office Orthopaedics for the Primary Care Physician.** Sharp Memorial Hospital at San Diego Princess. Fri-Sun. 20 hrs. \$395. Contact: Jacqueline Shiller, Medical Education, PO Box 84296, San Diego 92138. (619) 223-2997.

November 10-13—**Sexual Literacy: What is it? What do we know? What do we need to know? Whose responsibility is it?** The Society for the Scientific Study of Sex at the Cathedral Hill Hotel, San Francisco. Thurs-Sun. Contact: Bernard Goldstein, San Francisco State University, Biology Dept., 1600 Holloway Ave., San Francisco, 94132. (415) 338-1548.

November 11-14—**The Spine: Current Concepts of Diagnosis and Treatment.** Spine Study Group at Marriott Desert Springs Resort, Palm Springs. Fri-Mon. \$250. Contact: Spine Study Group, PO Box 33185, San Diego 92103. (619) 692-9115.

November 16—**Common Musculoskeletal Problems.** Veterans Administration Medical Center, Sepulveda. Wed. 6 hrs. Contact: Arun J. Mehta, MD, Rehabilitation Medicine Service (117), VA Medical Center, Sepulveda 91343. (818) 891-2473.

IDAHO

July 21-23—**Idaho Medical Association Annual Meeting.** Sun Valley. Thurs-Sat. Contact: IMA, 305 W. Jefferson, PO Box 2668, Boise 83701. (208) 344-7888.

August 6-13—**Acute and Emergency Medicine.** University of Arizona College of Medicine, Department of Family and Community Medicine, and Epic Expeditions at Sun Valley. 24 hrs. Contact: Kathy Rairigh, EPIC Expeditions, PO Box 209, Sun Valley, ID 83353. (208) 788-4995.

August 29-30—**Northwest Regional Perinatal Conference—Current Issues in Ob/Gyn, Neonatology and Pediatrics.** Inland Empire Perinatal Center at Coeur d'Alene Resort. Contact: Inland Empire Perinatal Center, 411 Medical Center Bldg, Spokane, WA 99204. (509) 624-3182.

September 2-5—**Strategies for Fitness and Health Promotion.** University of Arizona College of Medicine, Department of Family and Community Medicine, and Epic Expeditions at Sun Valley. 12 hrs. Contact: Kathy Rairigh, EPIC Expeditions, PO Box 209, Sun Valley, ID 83353. (208) 788-4995.

MONTANA

September 29-October 1—**Montana Medical Association Annual Meeting.** Heritage Inn, Great Falls. Fri-Sat. Contact: MMA, 2012 11th Ave., Suite 12, Helena 59601. (406) 443-4000.

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Information, requests for accreditation and items to be listed should be sent to the chairman of the CME Committee, New Mexico Medical Society, 303 San Mateo NE, Suite 204, Albuquerque, NM 87108 at least two months in advance. For information on CME accreditation or on the CME requirements of the New Mexico Board of Medical Examiners, please write to the above address or call (505) 266-7868.

NOTE: Course information in the following listing is subject to change on occasion. Check with the sponsoring institution for current details.

July 7-9—**New Mexico Ophthalmological Society Annual Meeting.** Eldorado Hotel, Santa Fe. Thurs-Sat. Contact: Donald J. Ham, MD, 1124 10th, Alamogordo 88310. (505) 434-1200.

July 18-21—**Ruidoso Family Practice Seminar.** Inn of the Mountain Gods, Mescalero. Mon-Thurs. Contact: NM Chapter, AAFP, PO Box 23070, Albuquerque 87192. (505) 298-5300.

July 22-24—**Diagnosis and Management of Arrhythmia.** Presbyterian Heart Institute, Albuquerque. Fri-Sun. Contact: Barry Ramo, MD, (505) 841-1065/(505) 242-2796.

July 28-30—**General Surgical Update.** Hilton Hotel, Albuquerque. Thurs-Sat. Contact: UNM SOM, Office of CME, (505) 277-3942.

August 5-6—**Santa Fe Cardiology Update.** Fri-Sat. Contact: New Heart Program, (505) 255-8474.

September 8-10—**Concepts & Controversies in Perinatal Care.** Albuquerque. Thurs-Sat. Contact: UNM SOM, Office of CME, (505) 277-3942.

September 22-24—**Primary Care Update '88.** UNM Conference Center, Albuquerque. Thurs-Sat. Contact: UNM SOM, Office of CME, (505) 277-3942.

October 6-8—**Management of Radiation Accidents.** Sheraton Old Town Hotel, Albuquerque. Thurs-Sat. Contact: UNM SOM, Office of CME, (505) 277-3942.

October 18-21—**Epidemiologic & Methodologic Problems in Determining Nutritional Status of Older Persons.** Sheraton Old Town Hotel, Albuquerque. Tues-Fri. Contact: UNM SOM, Office of CME, (505) 277-3942.

October 28-29—**New Mexico Medical Society Interim Meeting and Loss Control Seminar.** Physicians Mutual Liability Insurance Co. Journal Center Pyramid Holiday Inn, Albuquerque. Fri-Sat. Contact: New Mexico Medical Society, 303 San Mateo NE, Albuquerque 87108. (505) 266-7868.

November 11—**New Mexico Pediatric Society.** Inn of the Mountain Gods, Ruidoso. Fri. Contact: Marilyn Stark, (505) 265-7431.

December 1-3—**American College of Physicians—New Mexico Scientific Meeting.** Hilton Hotel, Albuquerque. Thurs-Sat. Contact: UNM SOM, Office of CME, (505) 277-3942.

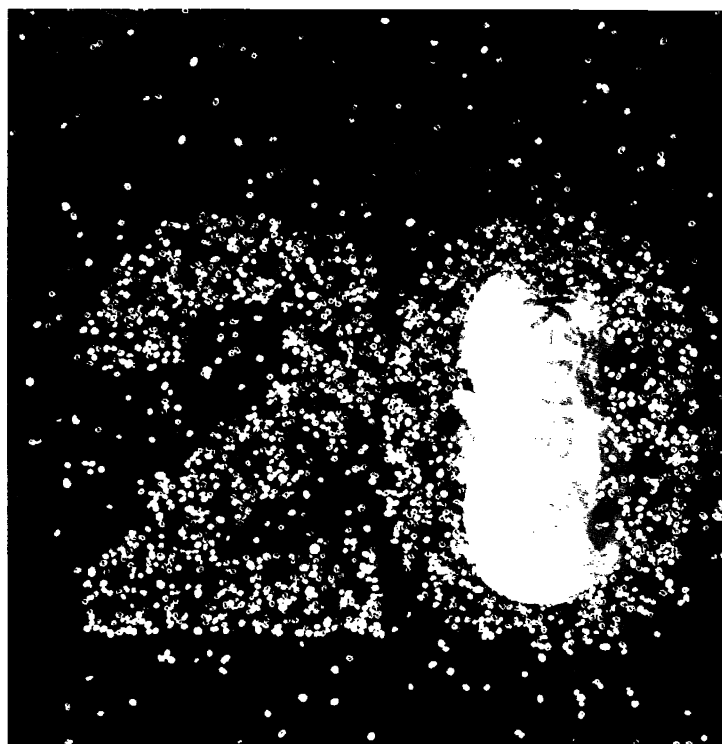
December 9-10—**Trauma Update '88.** Clarion Four Seasons Hotel, Albuquerque. Fri-Sat. Contact: UNM SOM, Office of CME, (505) 277-3942.

UTAH

This listing of continuing medical education courses in Utah is compiled and edited by the CME office of the Utah Medical Association. All courses listed have been certified by CME accredited institutions as meeting the criteria for Category 1 of the Physician's Recognition Award of the American Medical Association. They also must meet the definition of Utah Approved CME Credit for the purpose of medical license reregistration in Utah. Accredited institutions wishing to list AMA Category 1/Utah Approved CME courses here should send information at least two months in advance to the Office of Continuing Medical Education, 540 East Fifth South, Salt Lake City, Utah 84102; or phone (801) 355-5290. For information on CME accreditation or on the CME requirements of the Utah Physicians' Licensing Board, please write the CME office at the above address.

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1. For therapeutic use in patients with hypokalemia with or without metabolic alkalosis, in digitalis intoxication and in patients with hypokalemic familial periodic paralysis.

2. For the prevention of potassium depletion when the dietary intake is inadequate in the following conditions: Patients receiving digitalis and diuretics for congestive heart failure, hepatic cirrhosis with ascites, states of aldosterone excess with normal renal function, potassium-losing nephropathy, and with certain diarrheal states.

3. The use of potassium salts in patients receiving diuretics for uncomplicated essential hypertension is often unnecessary when such patients have a normal dietary pattern. Serum potassium should be checked periodically, however, and if hypokalemia occurs, dietary supplementation with potassium-containing foods may be adequate to control mild cases. In more severe cases supplementation with potassium salts may be indicated.

CONTRAINDICATIONS: Potassium supplements are contraindicated in patients with hyperkalemia since a further increase in serum potassium concentration in such patients can produce cardiac arrest. Hyperkalemia may complicate any of the following conditions: Chronic renal failure, systemic acidosis such as diabetic acidosis, acute dehydration, extensive tissue breakdown as in severe burns, adrenal insufficiency, or the administration of a potassium-sparing diuretic (e.g., spironolactone, triamterene).

Wax-matrix potassium chloride preparations have produced esophageal ulceration in certain cardiac patients with esophageal compression due to enlarged left atrium.

All solid dosage forms of potassium chloride supplements are contraindicated in any patient in whom there is cause for arrest or delay in tablet passage through the gastrointestinal tract. In these instances, potassium supplementation should be with a liquid preparation.

WARNINGS: Hyperkalemia—In patients with impaired mechanisms for excreting potassium, the administration of potassium salts can produce hyperkalemia and cardiac arrest. This occurs most commonly in patients given potassium by the intravenous route but may also occur in patients given potassium orally. Potentially fatal hyperkalemia can develop rapidly and be asymptomatic. The use of potassium salts in patients with chronic renal disease, or any other condition which impairs potassium excretion, requires particularly careful monitoring of the serum potassium concentration and appropriate dosage adjustment.

Interaction with Potassium Sparing Diuretics—Hypokalemia should not be treated by the concomitant administration of potassium salts and a potassium-sparing diuretic (e.g., spironolactone or triamterene) since the simultaneous administration of these agents can produce severe hyperkalemia.

Gastrointestinal Lesions—Potassium chloride tablets have produced stenotic and/or ulcerative lesions of the small bowel and deaths. These lesions are caused by a high localized concentration of potassium ion in the region of a rapidly dissolving tablet, which injures the bowel wall and thereby produces obstruction, hemorrhage or perforation.

K-DUR tablets contain micro-crystalloids which disperse upon disintegration of the tablet. These micro-crystalloids are formulated to provide a controlled release of potassium chloride. The dispersibility of the micro-crystalloids and the controlled release of ions from them are intended to minimize the possibility of a high local concentration near the gastrointestinal mucosa and the ability of the KCl to cause stenosis or ulceration. Other means of accomplishing this (e.g., incorporation of potassium chloride into a wax matrix) have reduced the frequency of such lesions to less than one per 100,000 patient years (compared to 40–50 per 100,000 patient years with enteric-coated potassium chloride) but have not eliminated them. The frequency of GI lesions with K-DUR tablets is, at present, unknown. K-DUR tablets should be discontinued immediately and the possibility of bowel obstruction or perforation considered if severe vomiting, abdominal pain, distention, or gastrointestinal bleeding occurs.

Metabolic Acidosis—Hypokalemia in patients with metabolic acidosis should be treated with an alkalinizing potassium salt such as potassium bicarbonate, potassium citrate, potassium acetate, or potassium gluconate.

PRECAUTIONS: The diagnosis of potassium depletion is ordinarily made by demonstrating hypokalemia in a patient with a clinical history suggesting some cause for potassium depletion. In interpreting the serum potassium level, the physician should bear in mind that acute alkalosis per se can produce hypokalemia in the absence of a deficit in total body potassium while acute acidosis per se can increase the serum potassium concentration into the normal range even in the presence of a reduced total body potassium. The treatment of potassium depletion, particularly in the presence of cardiac disease, renal disease, or acidosis requires careful attention to acid-base balance and appropriate monitoring of serum electrolytes, the electrocardiogram, and the clinical status of the patient.

Laboratory Tests: Regular serum potassium determinations are recommended. In addition, during the treatment of potassium depletion, careful attention should be paid to acid-base balance, other serum electrolyte levels, the electrocardiogram, and the clinical status of the patient, particularly in the presence of cardiac disease, renal disease, or acidosis.

Drug Interactions: Potassium-sparing diuretics; see **WARNINGS**.

Carcinogenesis, Mutagenesis, Impairment of Fertility: Long-term carcinogenicity studies in animals have not been performed.

Pregnancy Category C: Animal reproduction studies have not been conducted with K-DUR. It is also not known whether K-DUR can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. K-DUR should be given to a pregnant woman only if clearly needed.

Nursing Mothers: The normal potassium ion content of human milk is about 13 mEq per liter. Since oral potassium becomes part of the body potassium pool, so long as body potassium is not excessive, the contribution of potassium chloride supplementation should have little or no effect on the level in human milk.

Pediatric Use: Safety and effectiveness in children have not been established.

ADVERSE REACTIONS: One of the most severe adverse effects is hyperkalemia (see **CONTRAINDICATIONS, WARNINGS, AND OVERDOSAGE**). There have also been reports of upper and lower gastrointestinal conditions including obstruction, bleeding, ulceration, and perforation (see **CONTRAINDICATIONS AND WARNINGS**); other factors known to be associated with such conditions were present in many of these patients.

The most common adverse reactions to oral potassium salts are nausea, vomiting, abdominal discomfort, and diarrhea. These symptoms are due to irritation of the gastrointestinal tract and are best managed by taking the dose with meals or reducing the dose.

Skin rash has been reported rarely.

OVERDOSAGE: The administration of oral potassium salts to persons with normal excretory mechanisms for potassium rarely causes serious hyperkalemia. However, if excretory mechanisms are impaired or if potassium is administered too rapidly intravenously, potentially fatal hyperkalemia can result (see **CONTRAINDICATIONS AND WARNINGS**). It is important to recognize that hyperkalemia is usually asymptomatic and may be manifested only by an increased serum potassium concentration and characteristic electrocardiographic changes (peaking of T-waves, loss of P-waves, depression of S-T segment, and prolongation of the QT-interval). Late manifestations include muscle-paralysis and cardiovascular collapse from cardiac arrest.

Treatment measures for hyperkalemia include the following:

1. Elimination of foods and medications containing potassium and of potassium-sparing diuretics.
2. Intravenous administration of 300 to 500 mEq/hr of 10% dextrose solution containing 10–20 units of insulin per 1,000 ml.

3. Correction of acidosis, if present, with intravenous sodium bicarbonate.

4. Use of exchange resins, hemodialysis, or peritoneal dialysis.

In treating hyperkalemia, it should be recalled that in patients who have been stabilized on digitalis, too rapid a lowering of the serum potassium concentration can produce digitalis toxicity.

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(Continued from Page 731)

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* * *

August 13-15—**Retrieved Implants and Biomaterials** (Sponsor: UUMC). Fri-Sun. Contact: Rosalie Lammle, (801) 581-8664.

September 22-24—**Central Association of Obstetricians & Gynecologists** (Sponsor: UUMC). Thurs-Sat. 10.5 hrs. Salt Lake City Marriott. Contact: (801) 333-0988.

SPONSORS OF COURSES—ABBREVIATIONS

- AHA: American Heart Association, Utah Affiliate, 645 E 400 South, Salt Lake City 84102. (801) 322-5601.
- BYUHS: Brigham Young University Health Services, McDonald Student Health Center, Brigham Young University, Provo 84602. (801) 378-2771.
- CH: Castleview Hospital (formerly Carbon Hospital), RFD 2, Box 46, Price 84501. (801) 637-4800.
- CWH: Cottonwood Hospital, 5770 S 300 East, Salt Lake City 84101. (801) 262-3461.
- DMC: Dixie Medical Center, 544 S 400 East, St George 84770. (801) 673-9681.
- HCH: Holy Cross Hospital, 1045 E First South, Salt Lake City 84102. (801) 350-4744.
- ITS: Intermountain Thoracic Society, 1616 S 11th East, Salt Lake City 84105. (801) 484-4456.
- LDSH: LDS Hospital, 8th Ave and "C" St, Salt Lake City 84143. (801) 321-1100.
- LRH: Logan Regional Hospital, 1400 N 5th East, Logan 84321. (801) 752-2050.
- MDH: McKay-Dee Hospital Center, 3939 Harrison Blvd, Ogden 84409. (801) 399-4141.
- MVH: Mountain View Hospital, 1000 E Highway 6, Payson 84651. (801) 465-9201.
- 144: 144th Evacuation Hospital, PO Box 8000, Salt Lake City 84108. (801) 524-3924.
- OSS: Ogden Surgical Society, PO Box 9311, Ogden 84409.
- PCMC: Primary Children's Medical Center, 320 12th Ave, Salt Lake City 84103. (801) 363-1221.
- PVH: Pioneer Valley Hospital, 3460 S 4155 West, West Valley City 84120. (801) 968-9061.
- SMH: St Mark's Hospital, 1200 E 3900 South, Salt Lake City 84117. (801) 268-7111.
- UOS: Utah Ophthalmological Society, 540 E 500 South, Salt Lake City 84102. (801) 355-7477.
- USH: Utah State Hospital, PO Box 270, Provo 84603-0270. (801) 373-4400.
- UUMC: University of Utah Medical Center, 50 N Medical Dr, Salt Lake City 84132. (801) 581-2258.
- UVRMC: Utah Valley Regional Medical Center, 1034 N Fifth West, Provo 84604. (801) 373-7850.
- VAMC: Veterans Administration Medical Center, 500 Foothill Dr, Salt Lake City 84148. (801) 582-1565.
- VVMC: Valley View Medical Center, 595 S 75 East, Cedar City 84720. (801) 586-6587.

WASHINGTON

This listing of continuing medical education programs in Washington state is compiled by the Washington State Medical Association. To list Category 1 programs here please send information at least two months in advance to Continuing Medical Education, Washington State Medical Association, 2033 Sixth Avenue, Suite 900, Seattle, WA 98121; or phone (206) 441-WSMA.

Brochures and registration forms are available from the contact person or organization listed at the end of each course or in the list of course sponsors and contact information.

June 17-18—**Renal Disorders: Medical and Surgical Aspects**. Seattle. Fri-Sat. Contact: U/W, Maria Lilja, (206) 543-1050.

June 20-24—**Pathology of Lung Cancer**. Seattle. Mon-Fri. Contact: VMMC.

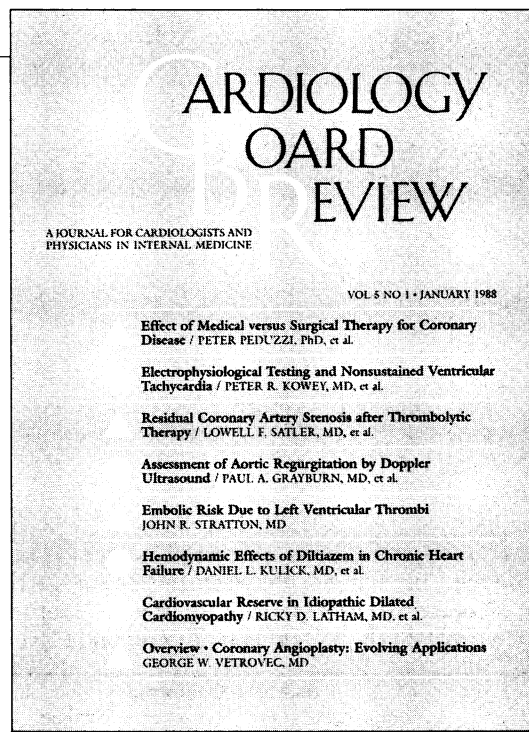
July 21-23—**Common Office Procedures**. Seattle. Thurs-Sat. Contact: U/W, Maria Lilja, (206) 543-1050.

(Continued on Page 734)

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CONTINUING MEDICAL EDUCATION

(Continued from Page 732)

- July 22-24—**First International Symposium on Pediatric Pain**. Seattle. Fri-Sun. Contact: U/W, Maria Lilja, (206) 543-1050.
- July 24-29—**Psychiatry for Primary Care**. Seattle. Sun-Fri. Contact: U/W, Maria Lilja, (206) 543-1050.
- July 29-31—**Seafair Anesthesia X**. Seattle. Fri-Sun. Contact: VMMC.
- August 1-5—**Postgraduate Seminar in Psychology: Modern Approaches to Psychological Interviewing**. Ellensburg. Mon-Fri. Contact: Central Washington University, (509) 963-2381.
- August 5—**Otology Update**. Seattle. Fri. Contact: VMMC.
- August 8-14—**Summer Seminar in Medical Ethics and History**. Seattle. Mon-Sun. Contact: U/W, Maria Lilja, (206) 543-1050.
- August 11-12—**Surviving the Elements**. Seattle. Thurs-Fri. Contact: U/W, Maria Lilja, (206) 543-1050.
- August 29—**NW Regional Perinatal Conference: Current Issues in OB/GYN, Neonatology and Pediatrics**. Coeur d'Alene, Idaho. Thurs. Contact: (509) 624-3182.
- August 31-September 3—**Second International Forum of Otorhinolaryngology**. Seattle. Wed-Sat. Contact: U/W, Maria Lilja, (206) 543-1050.

COURSE SPONSORS AND CONTACT INFORMATION

CME HARBORVIEW—Contact: Gayle Splater, Cytology Continuing Education, Dept. of Pathology, Harborview Medical Center, 325 Ninth Avenue, Seattle, WA 98104. (206) 223-5953.

CME PIERCE COUNTY—Contact: Mrs Maxine Bailey, Executive Director, College of Medical Education, 705 South Ninth, No. 203, Tacoma, WA 98405. (206) 627-7137.

U/W (UNIVERSITY OF WASHINGTON)—Contact: U/W School of Medicine, Div. of CME, SC-50, Seattle, WA 98195. (206) 543-1050.

WSMA—Washington State Medical Association, Continuing Medical Education, 2033 Sixth Ave, Suite 900, Seattle, WA 98121. (206) 441-9762.

VMMC (VIRGINIA MASON MEDICAL CENTER)—Contact: Linda Orgel, Division of Continuing Medical Education, Virginia Mason Medical Center, PO Box 900, Seattle, WA 98111. (206) 223-6898.

- September 9—**Update on Anxiety and Depression**. Seattle. Fri. Contact: U/W, Maria Lilja, (206) 543-1050.
- September 12-16—**16th Annual Family Practice Review Course**. Seattle. Mon-Fri. Contact: U/W, Maria Lilja, (206) 543-1050.
- September 17-24—**Effective Management of Common Sports Injuries**. San Juan Islands. Sat-Sat. Contact: Kathy Rairigh, EPIC Expeditions, (208) 788-4995.
- September 22-24—**Orthopedic Biomechanics**. Seattle. Thurs-Sat. Contact: VMMC.

WYOMING

- June 23-26—**Wyoming Medical Society Annual Meeting**. Jackson Lake Lodge, Moran. Thurs-Sun. Contact: WMS, PO Drawer 4009, Cheyenne 82003-4009. (307) 635-2424.
- July 16-23—**The Treatment of Infectious Diseases**. University of Arizona College of Medicine, Department of Family and Community Medicine, and Epic Expeditions at Yellowstone. 24 hrs. Contact: Kathy Rairigh, EPIC Expeditions, PO Box 209, Sun Valley, ID 83353. (208) 788-4995.
- July 18-22—**6th Annual Update in Clinical Microbiology and Immunology**. University of Utah Medical Center at Jackson Hole. Mon-Fri. 25 hrs. Contact: UUMC, 50 N Medical Dr, Salt Lake City, UT 84132. (801) 581-2258.
- July 23-30—**Up-to-date Pulmonary and Cardiac Medicine**. University of Arizona College of Medicine, Department of Family and Community Medicine, and Epic Expeditions at Jackson Hole and Yellowstone. 24 hrs. Contact: Kathy Rairigh, EPIC Expeditions, PO Box 209, Sun Valley, ID 83353. (208) 788-4995. ♦

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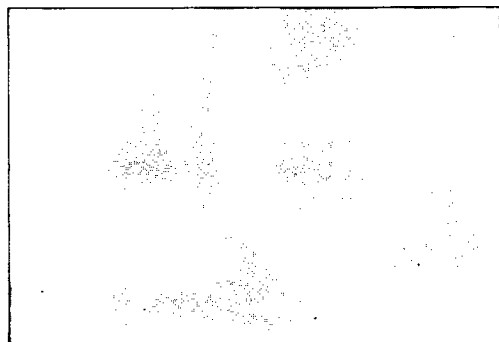
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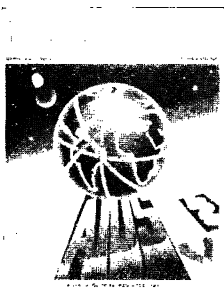
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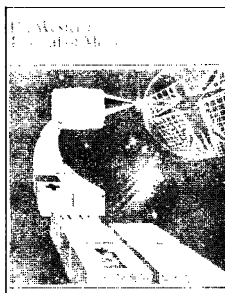
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This issue, from the Special Programme on AIDS of the World Health Organization, considers the methods and limitations of AIDS case reporting and HIV serologic studies, summarizes modes of HIV transmission, defines geographic patterns of spread, and examines the epidemiology of HIV infections by continent.

—Jonathan M. Mann, MD
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California Medical Association—PO Box 7690, San Francisco 94120-7690. (415) 541-0900. Annual Meeting: March 3-8, 1989, Disneyland Hotel, Anaheim.

Colorado Medical Society—PO Box 17550, Denver 80217-0550. (303) 779-5455. Annual Meeting: September 15-17, 1988, Marriott City Center, Denver.

Hawaii Medical Association—1360 S Beretania, Honolulu 96814. (808) 536-7702. Annual Meeting: October 10-12, 1987, Kauai Surf, Kauai.

Idaho Medical Association—305 W Jefferson, PO Box 2668, Boise 83701. (208) 344-7888. Annual Meeting: July 21-23, 1988, Sun Valley.

Montana Medical Association—2012 11th Ave, Suite 12, Helena 59601. (406) 443-4000. Annual Meeting: September 29-October 1, 1988, Heritage Inn, Great Falls.

Nevada State Medical Association—3660 Baker Lane, Reno 89502. (702) 825-6788. Annual Meeting: 1989, date and place to be announced.

New Mexico Medical Society—303 San Mateo NE, Suite 204, Albuquerque 87108. (505) 266-7868. Annual Meeting: 1989, date and place to be announced.

Oregon Medical Association—5210 SW Corbett Ave, Portland 97201. (503) 226-1555. Annual Meeting: (House of Delegates only): November 6-8, 1987, Portland.

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